

Title (en)  
Marine reversing gear assembly provided with locking device

Title (de)  
Bootsgetriebe mit Drehzahlumkehr und Verriegelungsvorrichtung

Title (fr)  
Transmission marine à inverseur avec dispositif de verouillage

Publication  
**EP 1681235 A1 20060719 (EN)**

Application  
**EP 06250129 A 20060111**

Priority  
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Abstract (en)  
The present invention provides a self-contained marine reversing gear assembly provided with a locking device for internal combustion engine in which introduction of the working oil from the lubricating oil circuit is unnecessary. The marine reversing gear assembly provided with a locking device of the present invention comprises an input shaft (1) driven by an internal combustion engine; an output shaft (3) connected to a propeller shaft; a hydraulic pump (P) driven by the input shaft; a hydraulic forward and reverse clutch (6,7); a directional control valve for switching the forward and reverse clutch by the supply of working oil from the hydraulic pump; and a locking device (12) provided with a locking mechanism member (13) for locking the output shaft, the locking device comprising a hydraulic actuator (14) for unlocking the output shaft by operating on the locking mechanism member due to the supply of working oil from the hydraulic pump.

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**B63H 23/08** (2013.01 - EP US); **F16H 63/3483** (2013.01 - EP US); **F16H 63/48** (2013.01 - EP US)

Citation (search report)  
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DE FR GB IT

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**EP 1681235 A1 20060719**; JP 2006199069 A 20060803; US 2006157316 A1 20060720; US 7506737 B2 20090324

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